DIGITAL COLOR PRINTER

UP-D5500

SERVICE MANUAL

Vol. 1 (1st Edition)

Related Manual

Mechanical operation is the same as those of UP-5500. Therefore, refer to UP-5500 SERIES SUPPLEMENT-1 (9-974-758-81).

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3-859-395-12 (1)

SECTION 1 OPERATING INSTRUCTION

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC fulles. These limits are designed to provide reasonable protection again harmful interference Operation of this equipment in a residential area is likely to cause harmful interference in which case the user wil environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and cause harmful interference to radio communications ssed i accordance with the instruction manual, may when the equipment is operated in a commercial be required to correct the interference at his own The model and serial numbers are located at the rear. Refer to these numbers whenever you call upon your Sony dealer regarding this product. Record these number in the space provided below.

You can cautioned that any changes or modifications not expressly approved in this manual could void your

This device requires shielded interface cables to comply with FCC emission limits.

authority to operate this equipment.

To avoid electrical shock, do not open the cabinet. Refer To prevent fire or shock hazard, do not expose the unit to rain or moisture.

WARNING

Model No. . Serial No. _

servicing to qualified personnel only Symbol on the products

For the customers in Europe

This symbol indicates the equipotential terminal which brings the various parts of a system to the same potential.

IEC65 or other IEC/ISO Standards applicable to the All the equipments connected to this unit shall be certified according to Standard IEC601-1, IEC950, Important safequards/notices for use in the medical environments

When installing the unit, incorporate a readily accessible

WARNING

in the patient area", the equipment shall be either powered by an isolation transformer or connected via an additional protective earth terminal to system ground unless it is certified according to Standard IEC601-1. When this unit is used together with other equipment

Patient Area



The leakage current could increase when connected

accordance with the instruction manual, it may cause interference (which can be determined by unplugging Relocate the unit with respect to the susceptible equipment. Plug filts unit and the susceptible equipment into different branch circuit. Consult your dealer. interference to other equipment. If this unit causes the power cord from the unit), try these measures: This equipment generates, uses, and can radiate frequency energy. If it is not installed and used in

gital Color Printer

Instructions For Use Page 2

Before operating this unit, please read this manual thoroughly and retain it for future reference.

Mode d'emploi Page 40

Avant la mise en service de cet appareil, prière de lire attentivement ce mode d'emploi que l'on conservera pour toute référence ultérieure.

Seite 78 Gebrauchsanweisung

Bevor Sie dieses Gerät verwenden, lesen Sie diese Anleitung bitte sorgfältig durch, und bewahren Sie sie für später zum Nachschlagen auf

disconnect device in the fixed wiring. If a fault should occur during operation of the unit, operate the disconnect device to switch the power supply product's enclosure that may be of sufficient magnitude to constitute a risk This symbol is intended to alert the user to the presence of uninsulated dangerous voltage" within the For the customers in the U.S.A.

user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. This symbol is intended to alert the

of electric shock to persons.

UP-D5500

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This manual is divided into four chapters. This section explains the organization of

Describes the features and system configuration of the digital color printer. Notes the precautions to be observed when using the printer. Also provided is information on the location and function of parts.

Preparation

coation and Function of Parts and Controls 8

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Explains the steps involved in setting up the printer prior to getting started—checking the supplied accessories, assembly, setting the SCSI DIP switch and connections.

Operation

Describes loading of the ink ribbon cassette and print paper and actual printing operation. Also provided is information on setting the print quantity and setting up the printer specifications.

Provides technical information on the printer, how to handle error messages

displayed in the printer window display, and how to deal with paper jams.

Conventions used

Throughout this manual you will find the references to other sections of the manual that contain related information. Cross reference

Important note

Be sure to read the sections of the manual marked Note. They explain points that you should be aware of to operate the printer correctly and prevent malfunctions.

Trademarks

Macintosh is the trademark of Apple Computer, Inc., USA.

MS-Windows is the trademark of Microsoft Corporation, USA.

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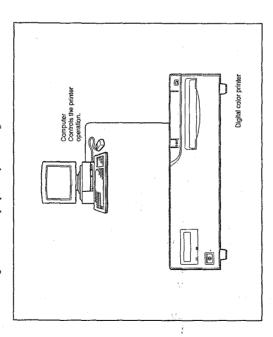
If the paper jams 39 Error Messages 38

System Overview

You can print out image data of MS-Windows or Macintosh graphics application software in high resolution (300dpi) and 256 shades of gray or in full color (16,700,000 colors). The Sony UP-D5500 digital color printer is designed to reproduce computer images on A5-size paper.

System Configuration

The following shows an example printer system configuration.



Precentions

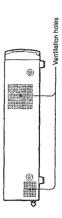
Safety

- · Operate the printer using the power source specified in "Specifications" (page
- · Be careful not to damage the power cable by placing or dropping heavy objects
 - on it; it is dangerous to use the unit with a damaged power cable.

 If you do not intend to use the unit for a long time, disconnect the power cable. · Unplug the power cable by grasping the plug, not the cable itself.
 - · Do not disassemble the unit.
- · Do not remove the cover. There is a danger of electric shock from the internal
- Be careful not to spill water or other liquids on the unit, or to allow combustible or metallic material to enter the cabinet. If used with foreign matter in the cabinet, the unit is liable to fail, or present a risk of fire or electric shock.
 - If the unit malfunctions or if a foreign body falls into the cabinet, disconnect the power immediately and consult your Sony service facility or your Sony dealer.
 - · When transporting the printer, remove the ink ribbon cassette and paper tray from the printer.

- · Avoid placing the unit in a location subject to:
- mechanical vibration bigh humidity
- excessive dust
- direct or excessive sunlight
- extremely high or low temperatures

 Ventilation holes are provided to prevent the unit from overheating. Be careful not to obstruct them with other units or by covering the unit with a cloth etc.



Location and Function of Parts and Controls

On condensation

- form inside the printer. In such cases the printer will probably not work properly, with a heater that tends to produce large amounts of moisture, condensation may and may even develop a fault if you persist in using it. If moisture condensation when it is moved from a cold room to a warm room or when it is left in a room · If the printer is subjected to wide and sudden changes in temperature, such as forms, turn off the power and leave the printer to stand for at least one hour.
 - printer to malfunction. Also if the printing pack is used in this state, spots are condensation may form on the ink ribbon or paper inside. This will cause the If the printing pack is subjected to wide and sudden changes in temperature, ilkely to appear on the printout.
- To store a half-used printing pack, replace it in its original packing and reseal the room for several hours. Doing so prevents condensation from forming when the package. If possible, keep the sealed printing pack in a cool, dark location. To subsequently use the printing pack, place it, in its sealed package, in a warm printing pack is removed from its package.

Clean the cabinet, panel and controls with a soft dry cloth, or a soft cloth lightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcobol or benzine, which may damage the finish.

For details, refer to the pages given in parentheses.

Front

8 9 6 ES) 3 4 e 8 <u>-</u>

Press to turn the printer on or off. 1 ① POWER switch

2 PRINT lamp

Lights while the printer is printing.

Lights in orange when the ink ribbon or paper is exhausted, the paper jams, or another 3 ALARM lamp (38) problem occurs.

4 Printer window display (28)

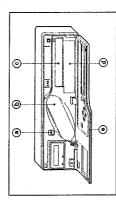
error occurs, a corresponding error message is The brightness of the printer window display Displays the menus and the messages. If an can be adjusted with the SYSTEM SETUP displayed.

5 Front panel (16)

Pull the top on the front door toward you to open it.

Opening the front panel reveals the sub panel buttons, ink ribbon cartridge, paper tray. paper cover and so on.

When the front panel is open.

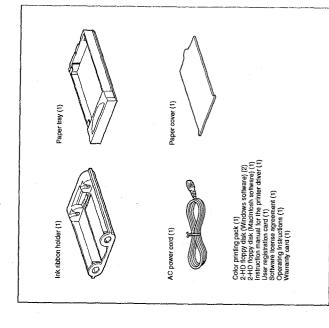


Push to eject the ink ribbon cartridge. EJECT button (16) **©**

Ink ribbon cartridge compartment (16)
Insert the ink ribbon cartridge (the ink ribbon holder loaded with an ink ribbon) <u></u>

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- Notes

 Retain the original carton and packing materials in case you have to transport the unit in the future.
 • Remove the ink ribbon holder and paper tray when transporting the printer.



Press this button to execute the values set with the COLOR ADJUST menu.

Used for menu operation.

Cursor keys

0

7 Paper ejection slot
The printout is ejected here.

Paper cover (11)
Paper is ejected onto this cover.

@

Load paper into this tray.

Paper tray (11)

⊚

Sub panel buttons

0

B TPRINT button
Press to make a printout.

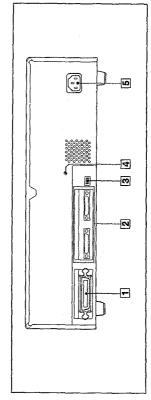
EXEC button (34)

6

On the sub panel, there are EXEC button [9], cursor keys [10] and MENU button [11].

For details, see the explanations of each

6 OSTOP button (22)



[1] Parallel interface connector (Amphenol 36pin) (15)

Used to connect a computer, that supports the parallel interface, using the parallel data cable Refer to "Important safeguard/notices for use in the medical environments on page 2. (not supplied).

4

peripheral, through an SCSI cable. The other [2] SCSI connector (Half-pitch 50-pin) (14) connectors is not being used, set the terminator of the DIP switch to ON. (see "Setting the DIP Switch" on page 12) another SCSI device. If either of the two connector is loop-through connector for Used to connect a computer, or another

Used to set the SCSI ID number and the buitl-(see "Setting the DIP Switch" on page 12) in terminator to ON or OFF. SCSI ID DIP switch (12) က

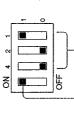
Refer to "Important safeguards/notices for use Equipotential ground terminal $\dot{\boldsymbol{\psi}}$ Used to connect to the equipotential plug to bring the various parts of a system to the in the medical environment" on page 2. same potential.

S ~AC IN connector (14, 15) Used to connect the printer to a wall outlet with the supplied power cord. 10 | Preparation

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1-5

The DIP switches on the rear panel determine the on/off state of the internal SCSI bus terminator and SCSI device ID number.



SCSLID

Terminator ON/OFF settingIf the printer is located at the physical end of the SCSI bus, this switch should be set to ON. Otherwise, if another device is at the end of the bus, this switch should be OFF.

Switch	ON	OFF
Terminator	The internal terminator is ON. The internal to	The internal terminator is OFF.

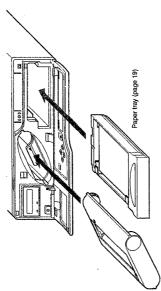
SCSI ID setting

The SCSI ID selection must be different from any other device on the bus. If two SCSI ID devices have the same ID, a malfunction will occur.

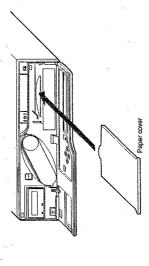
SCSIID	SCSIID	witch	
	4	2	1
0	0	0	0
1	0	0	1
8	0	2	0
3 0 2 1	0	8	_
4	4	0	0
5	4	0	-
9	4	2	0
7	4	2	-

Assembly

Attach the supplied paper cover, paper tray and ink ribbon holder to the printer. For details of how to assemble them, see the pages given in parentheses.



Ink ribbon holder (Load the ink ribbon holder first, then mount as a unit.) (page 16)



Connecting the Computer

The UP-D5500 connects to either of the computer that supports the SCSI interface or parallel interface.

Before connecting the computer, see "Important safeguards/notices for use in the medical environment" on page 2.

Connecting the Computor Supporting the SCSI Interface

When connecting the printer to the computer that supports the Centronics interface, do not connect the printer to the computer that supports the SCSI interface, and vice versa.

Turn off the power of each device before attempting to make any connections.
 Grab the connector at the end of the connecting cable, and firmly insert it into the

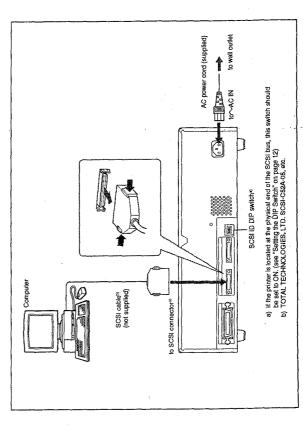
Nodes

• Before connecting the SCSI cable, make sure to turn off the power switches on

your computer and any peripheral equipment.

• The total length of the SCSI cabling used with a single-host computer should be less than 6 meters.

· The length of the SCSI cabling used with a single-host computer should be less



Setting the SCSI Device Type

You need to set the SCSI Device Type according to the system environment in case of the SCSI connection.

While pressing the MENU button, turn on the power of the printer. The DEVICE TYPE menu appears in the printer window display.

Check that the SCSI Device Type set to the system used is displayed on the printer window.

-Currently selected device type [EXEC] DEVICE TYPE: 2/3

If the setting is incorrect, set the correct number by pressing the φ or φ button, then press the EXEC key.

Windows 95: Set to 3. Windows 3.1: Set to 2. Macintosh: Set to 2.

Press the ⋄ or ⋄ button until the proper device type appears in the printer window display. DEVICE TYPE: [2]-2/3 [EXEC]

4 Turn off the printer.

Note You need a driver software according to the system environment to print.

Prepration | 13

14 | Preparation

This section describes the following operations that must be made prior to starting printing after mounting the paper tray and paper cover on the printer and making

Note SCSI cable connection requirement can vary between different computers and

peripherals. For the details of your installation, refer to the manual of your

computer and peripherals.

Turning on the power

- the necessary connections.
- · Loading an ink ribbon cartridge (see the following) · Loading paper (see page 19)

Once the above operations have been completed, there should be no need to repeat them during routine printing. Perform them only when absolutely necessary.

Loading an Ink Ribbon Cartridge

Notes

• Before connecting the parallel cable, make sure to turn off the power switches on

your computer and any peripheral equipment.

• Use the shielded cable that should be less than 3 meters and conforms to the

parallel specification, as the printer cable.

To use the printer in ECP mode, use an interface cable in conformity to IEEE
STD 1284 such as Hewlett Packard C2950A.

Computer

Connecting the Computor Supporting the Parallel Interface

You should turn on all peripheral devices before turning on your computers. Particularly, make sure that all SCSI peripheral are turned on first.

loaded with an ink ribbon) and paper must be loaded. The cartridge and paper must Use the ink ribbon and print paper (supplied) to check if the video printer functions To make printouts, an ink ribbon cartridge (an ink ribbon holder which has been Load the ink ribbon into the supplied ink ribbon holder, then load the ink ribbon cartridge into the printer's ribbon compartment. The supplied ink ribbon holder can be used for both the color printing and transparency printing. be compatible. (see "Ink Ribbon and Paper" page 35)

- Notes

 Before attempting to load an ink ribbon into the ink ribbon holder, check that the combination, an error message appears in the printer window display and ribbon and paper are compatible. If the printer detects an incompatible operation is disabled.
 - · Use only ink ribbons and paper that are designed for use with this printer. Failing to do so is likely to result in unsatisfactory printing or malfunctions. When replacing the ink ribbon, do not turn off the power. Turning off the power will cause the image stored in the memory (also called memory image in this

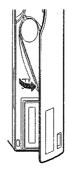
Fasten the ctamps at both sides of the interface connector to secure the printer cable.

W

Parallel data cable (not supplied)*)

1 Open the front panel by pulling the front panel top toward you.

manual) to be lost



Remove the ink ribbon cartridge by pushing the EJECT button. The ink ribbon cassette pops out.





Operation 16

Prepration | 15 and peripherals. For the details of your installation, refer to the manual of your computer and peripherals.

1-8

a) Hewlett Packard C2950A, etc.

to wall outlet

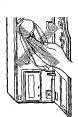
AC power card (supplied)

to Parallel interface connector

The parallel cable connection requirement can vary between different computers

UP-D5500 V1

Note Never put your hand into the ink ribbon compartment. The thermal head becomes very hot. You may burn yourself if you touch it.



When the ink ribbon cartridge cannot be ejected Turn the power off, then back on again. Then, after a while, press the EJECT

In this case, the image in memory will be lost.

3 Detach the used ink ribbon from the ink ribbon holder.



4 Load the ink ribbon into the ink ribbon holder.



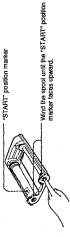
Fit the other spool into the right-hand part of the holder.

Load the spool holding the ink ribbon into the left-hand part of the holder.

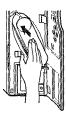
Wind the spools of the ink ribbon as illustrated until a START position marker appears.

Continue to next page →

5 Remove any slack from the ink ribbon. If the ribbon is left slack, it may be damaged when inserted.



6 Insert the ink ribbon cartridge firmly until it stops.



When the ink ribbon cartridge cannot be inserted
Turn the power off, then back on again. Then, insert the ink ribbon holder.

7 Close the front panel.



Notes When using ink ribbons

Once an ink ribbon has been completely used, replace it. Ink ribbons are not reusable.

 Do not touch the ink ribbon or place it in a dusty location. Finger prints or dust
on the ink ribbon will result in imperfect printing or malfunction of the head. When storing ink ribbons

• Avoid placing the ink ribbon in a location subject to:
- high temperatures

- high humidity

- excessive dust

· Store a partially used ink ribbon in its original packaging. direct sunlight

Repair the tear with transparent tape. There should be no problem with using the remaining portion of the ribbon. If your ink ribbon should tear

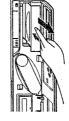
-Turn the spool in the direction of the arrow to remove any slack until the transparent tape cannot be seen.

1-9

To load paper, follow the procedure below. Be careful not to touch the printing

Notes

- When loading the paper while the printer is operating, do not turn off the power.
 Turning off the power will cause the image stored in memory to be lost.
 Use only the paper recommended in this manual. Otherwise, malfunction such as
 - paper jams are likely to occur.
- Open the front panel by pulling the front panel top towards you.
- The paper tray is ejected. 2 Push in the paper tray.

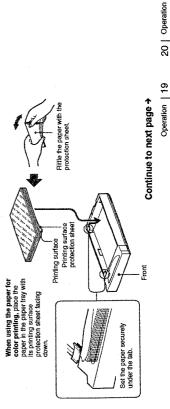


3 Place the print paper in the paper tray.

- The paper tray holds up to 100 sheets of paper. When adding paper to a partly
 full tray, be careful that the total number of sheets does not exceed 100. If
 - you exceed this limit, paper jams may occur.

 When adding paper to a partly full tray, remove the printing surface protection sheet (black or blue). Do not place different types of paper in the
- ray. Doing so may cause paper jams to occur.

 Load the paper so that it lays flat in the paper tray. If the paper is curled, it will overflow from the paper tray and the printing position may shift. If this happens, load fewer sheets in the paper tray.



4 Slide the paper tray back into the printer until it clicks into place.

5 Close the front panel.

When handling the paper

Do not touch the printing surface. Dust or finger prints are likely to cause unsatisfactory printing. Hold the paper by the printing surface protection sheet. When storing print paper

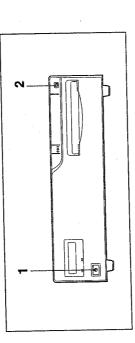
· Avoid storing the print paper in a location subject to:

- high temperatures
 - high humidity
- excessive dust - direct sunlight
- · Use the original package for storing unused paper.

Before printing

- Ensure that the printer is properly connected to the computer (page 14). Ensure that the combination of the ink ribbon and print paper is correct (page
- 35).

 Ensure that the ink ribbon cassette and print paper are properly loaded (pages 16, 19)



When the printer is in standby status, the following message appears in the Turn on the power of the printer, then computer.

printer window display.

Displays the link ribbon type and remaining amount of ribbon (indicates the number of printouts that can still be made with the ribbon) when RIBBON REMAIN Is set to ON, (see pege 26)

Number of copies to be printed.

Ready

0

COLOR:XXX

- parallel interface bus, turn on the power of the printer before turning on the Notes.

 • When the printer is connected to the computer through the SCSI bus or
- Never turn the printer on or off while the computer is accessing its hard disk, floppy disk or another SCSI device.
- Send the image data from the computer to the printer, then eater the print command or press the PRINT button of the printer. ผ
 - (1) While the printer is receiving the image data from the computer, the

following message appears: The data is written in the memory of the printer.

Indicates the data transmission

rate in 1/8 precision.

Send <<<<<<] g

Continue to next page →

22 | Operation Operation | 21

② The stored image data is printed as soon as the print command is entered from the computer or the PRINT button of the printer is pressed.

Color indication changes as the color printing proceeds: YELLOW→MAGENTA→CYAN YELLOW PRINTING

3) It takes about 40 seconds for a 300 dpi color printout to emerge from the paper outlet.

Once printing has been completed, the printer returns to standby status.

- Do not turn off the power during printing. If you do so, paper may not be ejected
 - and may jam in the printer.

 Do not pull the paper out till the printer finishes printing.
- · To prevent paper jamming, do not allow more than 10 printouts on the paper

To stop transferring the data midway

Send the command to stop transferring data from the computer. The printer returns to standby status.

You cannot stop printing midway.

stop printing, the printer stops printing after completing the current printing. When If you press the STOP button of the printer or the computer sends the command to the multiple quantities of printouts are set, the printer stops printing after completing current printing and does not print remaining copies.

If the printer does not print

The printer will fail to print in the following cases:

- While an error message is displayed on the printer window display. Proceed as described in "Error Messages" on page 38. In this case, the paper is ejected without printed, even if you press the PRINT button or the printer receives the print command from the computer.
- Image data stored in the memory is lost if you turn off the power. Store the image into memory again, then press the PRINT button.

If the image quality of printouts is not satisfactory

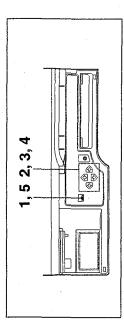
You can adjust the image quality of the printouts. (See "Adjusting the Sharpness and Adjusting the Printout Color" pages 29 and 31.)

When storing your printouts:

- · Avoid storing the printout in a location subject to high temperatures, high
- Do not stick tape on a printout. Also, avoid leaving a plastic eraser on a printout or placing a printout in contact with materials which contain plasticizer (under a humidity, excessive dust and direct sunlight desk mat, for example).
- Do not allow alcohol or other volatile organic solvents to come into contact with

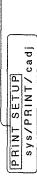
Setting the Print Quantity

You can set a print quantity value up to 9 before printing.



Press the MENU button.

 $\boldsymbol{2}$ Select PRINT SETUP on the displayed menu by pressing the \Leftrightarrow or \Leftrightarrow button.



Press the ⇔ or ⇔ button until PRINT SETUP appears.

3 Select PRINT QTY by pressing the Φ or Φ button.



4 Set the quantity by pressing the \Leftrightarrow or \Leftrightarrow button. \Leftrightarrow : The number increase. \Leftrightarrow : The number decreases.

When you keep the button pressed, the number changes quickly.

Press the ⇔ or ⇒ button until the	desired number of copies appears.
PRINT QTY: 01	DOWN <>UP

5 Press the MENU button.

The printer is reset to normal operation mode.

if the paper runs out during printing

Load the paper into the paper tray and press the PRINT button. The printer prints the remaining copies.

Setting the Print Quantity (continued)

To check the amount of ink ribbon remaining
If you set RIBBON REMAIN in the SYSTEM SETUP menu is set to ON, the
amount of ink ribbon remaining is displayed in the printer window display when
the printer is in standby mode.

(See page 26.)

Number of printouts that can still be	made with the ribbon.
COLOR:XXX	Ready
	å

Note

Use the ink ribbon from the beginning, or the amount of ink ribbon remaining display may no be correct.

Operation | 23

24 Operation

Setting Up the Printer

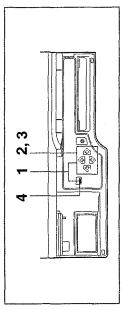
There are 3 menus that are used to set up the printer. The menus and functions that can be set with those menus are as follows.

Menu	Functions to be set	Reference page
SYSTEM-SETUP	Selecting whether the ribbon remaining is displayed in the printer window display.	56
	 Selecting whether the operation and error tones sound. 	27
	 Adjusting the brightness of the printer window display. 	58
PRINT-SETUP	Setting a print quantity value.	ಜ
	Adjusting the sharpness.	29
COLOR ADJUST SETUP	Adjusting the printout color (color intensity and contrast).	31

Setting Up the Printer (continued)

Selecting Whether the Ribbon Remaining is Displayed

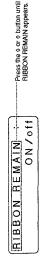
The ribbon remaining and ribbon type appear in the printer standby mode, if RIBBON REMAIN explained below is set to ON.



These the MENU button, then select SYSTEM SETUP by pressing the \Leftrightarrow or \Leftrightarrow button.

Press the e or e button until SYSTEM	SEI UP appears.	
SYSTEM SETUP	SYSTEM/prn/cadj	

 $\boldsymbol{2}$ Select RIBBON REMAIN by pressing the $\boldsymbol{\vartheta}$ or $\boldsymbol{\vartheta}$ button.



 ${\bf 3}$ Select whether the ribbon remaining is displayed in the printer window display by pressing the φ or φ button.

RIBBON REMAIN :

Display the desired operation in capital letters by pressing the \Leftrightarrow or \Leftrightarrow button.			
	Selection	NO.	OFF
	When selecting Selection	To display	Not to display

4 Press the MENU button. The regular screen appears.

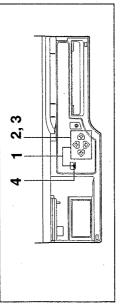
26 Operation

Setting Up the Printer (continued)

Adjusting the Brightness of the Printer Window Display

Selecting Whether the Operation and Error Tones Sound

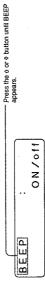
Whenever you press a button on the front panel or sub panel, the operation tone sounds (one time). When an error occurs, the alarm tone sounds (three times). You can turn these tones on and off with menu.



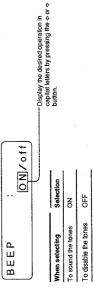
Press the MENU button, then select SYSTEM SETUP by pressing the \Leftrightarrow or \Leftrightarrow



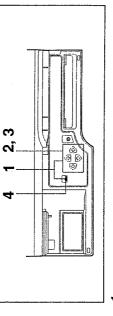
 $\boldsymbol{2}$ Select BEEP by pressing the $\boldsymbol{\vartheta}$ or $\boldsymbol{\vartheta}$ button.



3 Select whether the operation and error tones sound by pressing the \Leftrightarrow or \Leftrightarrow button.



The regular screen appears. 4 Press the MENU button.



Press the MENU button, then select SYSTEM SETUP by pressing the \Leftrightarrow or \Leftrightarrow



 \boldsymbol{Z} Select LCD-CNTR by pressing the $\boldsymbol{\Phi}$ or $\boldsymbol{\Phi}$ button.



 ${\bf 3}$ Adjust the brightness of the printer window display by pressing the φ or φ

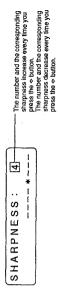


4 Press the MENU button. The regular screen appears.

28 Operation

3 Select the desired sharpness by pressing the ⋄ or ⋄ button.

You can set the sharpness to any of 8 steps from 0 to +7. On a setting of step 4 corresponds to the standard sharpness.



When selecting	Content of settings
To make a soft outline	Toward step 0
To make a normal outline	Centered (step 4)
To make a sharp outline	To the right (toward step 7)

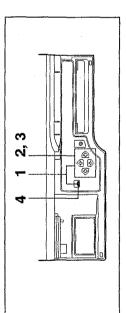
Note

The printout of the signal sent from the computer without being compensated in the printer is made if you set the sharpness to step 0.

The regular screen appears. 4 Press the MENU button.

You can set the printout sharpness to any of 8 levels. The setting remains effective until reset - even if you turn the power off.

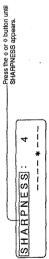
Adjusting the Sharpness



Press the MENU button, then select PRINT SETUP by pressing the \Leftrightarrow or \Leftrightarrow button.



 $\boldsymbol{2}$ Select SHARPNESS by pressing the $\boldsymbol{\Phi}$ or $\boldsymbol{\Phi}$ button.



Continue to next page →

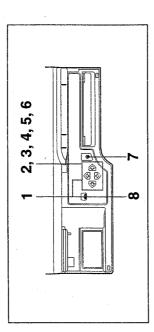
Adjusting the Printout Color

You can adjust the color intensity (RED/GREEN/BLUE) and contrast (DARK/LIGHT). You can store up to three settings.

These settings are managed according to the PRESET number. The color intensity

and picture contrast of a printout are determined by recalling one of the three settings according to their PRESET numbers. Settings can be registered as Preset 1, 2 and 3. The printer retains these settings - even if you turn off the printer power. Also, you can make a printout using temporarily set values, without erasing the stored adjustment values.

All values are factory-set to 0 for PRESET numbers 1, 2 and 3.



Press the MENU button, then select COLOR ADJUST by pressing the \Leftrightarrow or \Leftrightarrow

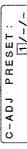


2 Select C-ADI PRESET by pressing the 4 or 4 button.



Continue to next page →

3 Select the PRESET number of the values to be adjusted or to be modified by pressing the & or & button.



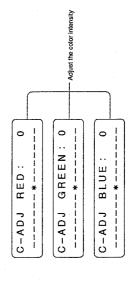
Press the ⋄ or ⋄ button until the desired PRESET number appears.

When modifying, you can preserve the original settings. (See "To retain the originally set value" on page 34.)

The RED, GREEN and BLUE color component and contrast settings are divided into 15 steps, from -7 to +7, indicated by a value and graph. The center of the graph corresponds to the standard color.

When adjusting the RED/GREEN/BLUE (color intensity)

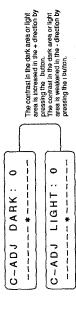
			•
Adjustment item	When selecting	Button to be pressed	Adjustment direction on the menu
RED C-R	To make the image reddish	⇒ button	Toward R (red)
	To make the image cyan (blue) < button	pntton	Toward C (cyan)
GREEN M-G	To make the image greenish	→ button	Toward G (green)
	To make the image magenta (pink)	◆ button	Toward M (magenta)
BLUE Y-B	To make the image bluish	⇒ button	Toward B (blue)
	To make the image yellowish	◆ button	Toward Y (yellow)



Operation | 31

32 | Operation

When adjusting DARK/LIGHT (contrast)

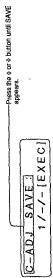


djustment item	When selecting
DARK	To adjust the dark area of an image
JGHT	To adjust the light area of an image

Once you have changed the value. Once you have changed the value, T (temporary) appears on the menu screen. TEMP indicates that the settings are temporary and have not yet been stored.

5 Select SAVE by pressing the & or & button.

You can make a printout with the settings made as explained above.



Select the SAVE number to which new settings are to be stored by pressing the $\boldsymbol{\diamond}$ or $\boldsymbol{\diamond}$ button.

Press the ⇔ or ⇔ button until the desired PRESET number appears. C-ADJ SAVE:

To retain the originally set value Select a SAVE number which is different from the PRESET number selected in step 3.

7 Press the EXEC button.
The settings are registered to the SAVE number selected in step 6.
T disappears from the menu.

The regular screen appears. 8 Press the MENU button.

To copy the settings made for one certain PRESET number to another PRESET number.

\$\$ Select the source PRESET number for which the settings to be copied are stored on the COLOR ADJUST menu.

2 Select the target SAVE number to which data is to be copied.

3 Press the EXEC button. Settings stored to the PRESET number selected in step 1 are copied to the SAVE number selected in step 2.

Ink Ribbon and Paper

cartridge" consists of the supplied ink ribbon holder loaded with ink ribbon.) Use the ink ribbon with the paper contained in the same package. If the printer detects an incompatible combination, an error message appears in the printer window Both paper and an ink ribbon cassette are necessary for printing. ("Ink ribbon display and printing is disabled.

UPC-5510 Color Printing Pack

A-5 (5 % x 8 % inches) size paper 100 sheets x 2 Contains color ink ribbon and paper. Color ink ribbon 1 roll

- Notes

 Use only the ink ribbon and paper designed for use with this printer. If you use a
 - different type, the printer may not print properly or malfunction. Ink ribbon and paper are not re-usable. Once exhaused, replace them with new

Specifications

Printer

Model for the USA and Canada: 120 V AC, 50/60 Hz Power requirements

Model for the European countries:

220 to 240 V AC, 50/60 Hz Power consumption

Model for the USA and Canada: About 2.8 A max. at 25°C, 120 V AC

Model for the European countries: About 1.2 A max. at 25°C, 240

V AC

Operating temperature

20 % to 80 % (no condensation 5°C to 35°C (41°F to 95°F) Operating humidity

allowed)

-20°C to 60°C (-4°F to 140°F) Storage and transport temperature

20 % to 90 % (no condensation Storage and transport humidity

About $424 \times 124 \times 475 \text{ mm (w/h/d)}$ $(16\% \times 5 \times 18\%$ inches) allowed) Dimensions

Printing system

About 17 kg (30 lb 14 oz)

Sublimination heat transfer printing Thermal head 11.6 dot/mm (2048 dots)

256 levels each for yellow, magenta, and cyan Total gradation

Digital interface

Amphenole 36-pin connector x 1 Half-pitch 50-pin connector x 2 Parallel data interface - 1 channel SCSI - 1 channel

Printing time Approximately 40 seconds Ink ribbon holder (1) Supplied accessories

Paper tray (1)

Color printing pack (1) AC power cord (1) Paper cover (1)

(Windows software) (2) 2-HD floppy disk

Instruction manual for the printer (Macintosh software) (1) 2-HD floppy disk

driver (1)

Software license agreement (1) Instructions for Use (1) User registration card (1)

Warranty card (1)

Interface

IEEE 1284-B connector (amphenol Control connector

Input: Max. 5 V (TTL) Output: Max. 5 V (TTL)

(Compatible, Reverse Nibble and IEEE STD 1284-1994 8 bit, parallel, Data transmission system

ECP modes) Logic level Parallel Interface connector pin assignmen/

ninit nReverseReques nDataAvail nPeriphRequest Peripheral Logic High (pull up to +5 V at 1 kitohm) GND Not defined IEEE 1284 Active| EEE 1284 Active nAckRevers HostAck Data8 (MSB) PtrClk PtrBusy AckDataReq Not defined Not defined Data4 Data4 Data5 nSelectin nACK Busy PError nAutoFd Select nlnit

UP-D5500 supports Compatible, Reverse Nibble, and ECP modes of the two-way parallel interface standard (IEEE STD 1284-1994).

Design and specifications are subject to change

Others | 35

36 Others

The following troubleshooting checks will help you correct the most common problems you may encounter with your unit. Before proceeding with these trouble checks, first check that the power cord is firmly connected. Should the problem persist, unplug the unit and contact your Sony dealer or local authorized Sony service facility.

Symptoms	Possible causes and remedies
Nothing appears in the printer window	 The POWER switch of the printer is not set to ON.
display	→ Set the POWER switch of the printer to ON.
	 Connections may not be correct.
	→ Check connections and rectly, if necessary. (see page 14)
The printer does not print.	 An error message appears on the display.
	 Perform the steps described in "Error Messages" on page 38.
	 Paper that cannot be used with the printer has been loaded.
	→ Load the correct paper. (see page 35)
r	Use only ink ribbon and paper for this printer.
	 The paper is not loaded correctly.
	 Check which side of the paper is the printing side, then load the paper again, (see page 19).
The printout color is very pale.	The paper is not loaded correctly.
	 Check which side of the paper is the printing side, then load the paper again. (see page 19).

Error Messages

If a problem occurs, the ALARM lamp lights and an error message stating the problem appears in the printer window display. Note the message and perform whatever action is necessary to solve the problem.

Error messages	Possible causes and remodies
BUSY PRINTING	The printer is printing, preventing any other operation.
	ightarrow Wait until the printer finishes printing, then retry the operation.
HEAD IN COOLING	The thermal head has overheated.
	Leave the printer until the head cools down and this message disappears.
NO IMAGE IN DATA	No image data is stored in the printer memory.
	- Transfer the image data from your computer.
NO PAPER	The ink ribbon has been exhaused.
	-+ Fit a new ink ribbon. (Ink ribbons cannot be reused.) (see page 16)
NO RIBBON	The ink ribbon is crumpled in the ink ribbon holder.
	 Remove the ink ribbon cartridge and reload the ink ribbon into the ink ribbon holder. (see page 16)
	 The link ribbon has been torn.
	→ Repair the tear with transparent tape. (see page 18)
	 The ink ribbon cartridge is loaded into the printer, but the lnk ribbon has not been loaded into the ink ribbon holder.
	Load the ink ribbon into the ink ribbon holder and reload it. (see page 16)
NO RIBBON & PAPER	The ink ribbon cartridge is loaded in the printer, but the ink ribbon has not been loaded into the link ribbon holder, and no paper has been loaded into the paper tray.
	- Load the ink ribbon into the ink ribbon holder, then load the ink ribbon cartridge, and load the paper into the paper tray.
	(see pages 16 and 19)
PAPER JAMMING	The paper has jammed.
	-+ Remove any jammed paper from the printer. (see page 39)
REMOVE PAPER	The maximum number of printouts has accumulated on the paper cover.
	→ Remove the printouts from the paper cover.
PAPER MISMATCH	The ink ribbon and paper are not compatible.
	 Use a valid combination of paper and ink ribbon. (see page 35)
RIBBON END	The paper has been exhausted.
	- Load paper into the paper tray. (see page 19)
RIBBON ERROR	The ink ribbon is not loaded in the ink ribbon holder.
	Load the ink ribbon into the holder. (see 16)
SENSOR MOTOR ERR	Sensor trouble or motor trouble has occurred.
	 Turn off the power immediately and contact your Sony service facility or your Sony dealer.

- 1 Open the front panel.
- 2 Remove the paper cover.



If any printouts have been ejected to the paper tray, remove them before removing the paper tray.

3 Check whether any paper is jammed inside the printer. If you find a jammed sheet, slowly pull it into the printer tray.



Note Mover attempt to pull a jammed sheet down, up, backwards, or forwards; the sheet may tangle or tear.

4 Remove the paper tray.



5 Load the paper into the paper tray correctly.



- Notes

 Do not reuse the paper put back in step 3. Discard that paper.

 Use only paper recommended in this manual.
- 6 Reinsert the paper tray and paper cover, then close the front panel.

Others | 39

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Using the Printer Chooser Driver Before using the Printer Chooser Driver Installing the Chooser Driver Printing Background Printing In Case of a Problem Using the Photoshop Plug-in Module Installing the Photoshop Plug-in Module Installing the Plug-in Module Printing an Image

Printer Driver

Operating Guide Page 16
This guide describes installation and use of the Macintosh Printer Driver.

UP-D5500 Series

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 Photoshop is a registered trademark of Adobe Systems

Using the Printer Chooser Driver

The Chooser Driver software enables printing on the UP-D5500 Series using the standard print functions of application programs.

Before using the Printer Chooser Driver

System Requirements

The following conditions are required for using the Macintosh Chooser Driver:

• A Macintosh with 32-bit Color QuickDraw

At least & MB of free memory.
 All clast & MB of free memory.
 Mac OS System 7.1 or later.
 The driver operates faster if more free memory is available, so we recommend having as much memory as possible.

Note This Macintosh Printer Chooser Driver does not support QuickDraw GX.

Installing the Chooser Driver

Install the Printer Chooser Driver by the following procedure.

- Insert the supplied "PRINTER DRIVER for Macintosh" floppy disk into the Mac's floppy disk drive.
- 2 Double click the disk icon to open the window.
- 3 Double click the "Chooser" folder to open the window.
- 4 Double click the "English" folder to install the English version or the "Japanese" folder to install the Japanese version.
- 5 Drag the "UP-D5500" icon to the Extensions folder inside the System
- 6 If you expect to do background printing, copy the "UP-D5500 Background" to the hard disk (it does not need to be in the System folder).

Using the Printer Chooser Driver 17

18 Using the Printer Chooser Driver

Printing

Printing

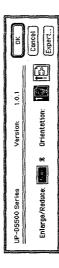
■ Choosing the UP-D5500

Use the Chooser to select the UP-D5500 Series before printing with it the first time, and when switching back to the UP-D5500 Series after using another printer.

- 1 Select "Chooser" from the Apple menu to display the Chooser window.
- display the name of the UP-D\$500 in the list box at the right side of the Select the UP-D5500 icon from those at the left side of the window to
- 3 Select the name of the UP-D5500 in the list box to display the SCSI connection address.
- Close the Chooser window.

Page Setup

Page Setup sets the paper feeding orientation and magnification or reduction percentage. 1 Select "Page Setup" from the File menu to display the Page Setup dialog box.



- 2 See below to set the selection items as required.
- 3 Confirm your settings and click the "OK" button to close the dialog box

About the Page Setup Items

Page Setup dialog box selections are described below.

Enlarge/Reduce

The printed image is magnified or reduced by the specified percentage both horizontally and vertically. For example, specifying 200% produces a horizontally and vertically. For example, specifying 200% produces a printed image of twice the height and twice the width of the size specified in the software, so the printed image has four times the area. You can enter any whole number between 25 and 400 (%). For example, if Enter the desired magnification or reduction percentage from the keyboard the paper size specified in the software is larger than the paper size in the printer, the image will be reduced when printed.

Orientation

orientation.

Specifies whether to print the image in tall (portrait) or wide (landscape)

Clicking the "Expert..." button displays the following Expert dialog box.

Current Status Concel OK Green. Blue Red 00 UP-D5500 Series Sharp level Dark level Light level

Contrast and Color Level

Clicking the "Current Status" button displays printer setup information. Two sliders adjust contrast. The Dark level, slider adjust the black level, and the Light level slider adjusts the white level. These sliders can be set to levels between -7 and +7.

The Sharp level slider adjusts the sharpness of edges of objects in the printed image. This slider can be set to levels between 0 and +7. The color level sliders adjust the level of each color, from -7 to +7.

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6

Using the Printer Chooser Driver

Background Printing

Printing

Use the following procedure to print from an application to the UP-D5500

Select "Print" from the File menu to display the Print dialog box.

UP-055(UP-05500 Series				¥	
Copies:		Pages:	⊕ All	Pages: (All O From: 1 To:	Cancel	
	Print:	Print: ® Now	O) Background / Leter		

- 2 See below to set the selection items as required.
- Click "OK" to start printing. Click "Cancel" if you want to cancel

About the Print Setup Items

Print dialog box selections are described below.

Specifies how many copies to print. • Coples

• Pages

Specifies which pages to print.
"All" selects all pages of the current document in the application.
"From" selects the page to print first, and "To" specifies the page to print last. Page numbers are entered from the keyboard.

Specifies print timing.
"Now" causes the document to print as soon as you click "OK".
"Background / Later" starts background printing when you click "OK".

Background Printing

cannot be used for other things while printing. However, you may want to be able to work in the foreground while printing in the background, for example, to write a manuscript for a speech while printing images for slides. You Printing with this driver is usually done in the foreground, so the computer would used background printing to do this.

System Environment for Background Printing

Background printing requires that UP-D5500.Background be installed with the Chooser Driver (page 17), and the following condition:

• These must be at least enough free space on the hard disk to hold the document to be printed (depending on the particular document).

Outline of Operation

immediately, and the application cannot be used until printing finishes. With background printing, the application can be used again as soon as the document is copied to the spool file, which is automatically deleted when When UP-D5500.Background is loaded, printing from an application copies the document to a spool file. With foreground printing, printing starts background printing finishes.

Do not use the Photoshop Plug-in Module while printing in the background, as this may cause the computer to hang.

Using the Printer Chooser Driver 22

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Using the Printer Chooser Driver

In Case of a Problem

If a problem occurs while using this kit, please check the following.

During Installation

If the UP-D5500 icon does not appear in the Chooser window:

Check by scrolling the icon window.
 Check that the Printer Driver is present in the System Expansion Folder of

the current System Folder.

Close the Chooser window once, and re-open it.

Restart the Macintosh.

Verify that QuickDraw GX has not been installed.

• If the name of the UP-D5500 does not appear in the list box (no SCSI address displayed) when you click the UP-D5500 icon in the Chooser window.

Turn off the Macintosh and connected devices, and check the SCSI cable

While Printing

You get a "Printer not ready" error dialog box when trying to

Is the printer's power cord connected properly?

• Is the printer connected to the Mac properly?

• Is the printer selected, and is it ready to receive data?

• Is there enough paper, or is there a paper jam? See the Printer Operating Manual for descriptions of the error displays.

While Background Printing

 During background printing, the foreground application does not respond quickly

The processor is shared by foreground and background operations, so foreground operation is normally slowed by background printing.

Others

documentation, such as application compatibility issues. See the README file for important updates to the

Using the Photoshop Plug-in Module

The Photoshop Plug-in Module is a program that allows printing images from the Photoshop photographic touch-up program. When printing an image, you can also display printer color adjustments, print size and other printing conditions. This section describes the installation and basic operation of the Photoshop Plug-in Module.

Before Using the Photoshop Plug-in Module

System Requirements (Operating Environment)

The following conditions are required for using the Photoshop Plug-in

· At least 8 MB of free memory.

Mac OS System 7.1 or later.

 Adobe Photoshop version 2.5 or later.
 The driver operates faster if more free memory is available, so we recommend having as much memory as possible.

> 83 In Case of a Problem

Printing an Image

Installing the Plug-in Module

Install the Plug-in Module by the following procedure.

- 1 Insert the supplied "PRINTER DRIVER for Macintosh" floppy disk into the Mac's floppy disk drive.
- 2 Double click the disk icon to open the window.
- 3 Double click the "Plug-in" folder to open the window.
- 4 Double click the 'English' folder to install the English version, or the "Japanese" folder to install the Japanese version.
- 5 Drag the "UP-D5500 Export" icon to the Photoshop Plug-in folder.

When you finish the above installation, restart Photoshop to enable the Plugin Module.

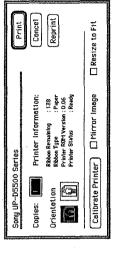
Printing an Image

To print image data, open the image file with Photoshop, then bring up the Plug-in Module main dialog box.

Displaying the Main Dialog Box

To print an image, display the main dialog box as follows:

- 1 Double click the Photoshop icon to run Photoshop.
- 2 Open the image file to print (this software supports 3-channel RGB and 1-channel grayscale images).
- Select "Export" on the File menu, and select "Sony UP-D5500 Series Export..." to display the Sony UP-D5500 Series main dialog box.



Note
If the printer is not turned on, or if you attempt to print without having the printer cable connected, the following message appears:
"No response from UP-D5500.
Check the power and connection cables."

26 Using the Photoshop Plug-in Module

■ Main Dialog Box Functions

From the main dialog box, you can check and adjust the condition of the image data output to the printer, and control printer operation.

Copies Specifies the number of copies to print. You can enter up to 9.

Orientation

Sclects either landscape (wider icon) or portrait (taller icon). By default, the printer automatically selects portrait with taller images and landscape with wider ones.

Printer Information

Displays the current printer conditions. The printer is ready to print when the Printer Status is "Ready". Other possible conditions are "Check Paper" and "Check Ribbon Casseta". Other displayed items are how many prints can be made on the ternating fibbon, the type of ribbon, and the ROM version in the printer.

Mirror Image

Prints a mirror image when this box is checked.

Print
Prints the image.

Closes this dialog box without doing anything else. Cancel

Clicking here prints an image previously stored in the printer memory.

Resize to Fit

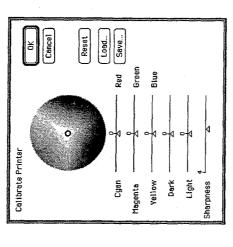
Automatically magnifies or reduces the image to the maximum size that can be printed on the UP-D5500 Series.

The transformation system is bi-linear.

Printing an Image

Calibrate Printer
Clicking here displays the Calibrate Printer dialog box for adjusting the
printer colors.

■ Calibrate Printer Dialog Box Functions



 Parameter Adjustment Ranges

 Cyan-Red
 -7 to +7

 Magenia-Green
 -7 to +7

 Yellow-Blue
 -7 to +7

 Dark
 -7 to +7

 Light
 -7 to +7

 Sharpness
 0 to +7

28 Using the Photoshop Plug-in Module

Button Functions Each button works as follows:

Sends modified parameter values to the printer.

Cancel

Returns to the main dialog box. Any changes to the parameters are ignored.

Reset

Returns all parameter values to the printer defaults.

Loads previously saved color calibration settings.

• Save... Saves the current dialog box settings to disk.

About the Printer Status Dialog Box

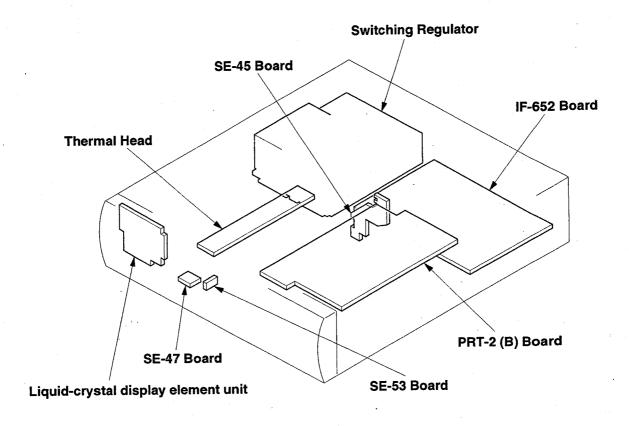
Selecting "Sony UP-D5500 Series Export..." from the "Export" when starting to print, or while printing, brings up the Printer Status dialog box, which displays the current printer status. You can click the "Cancel Printing" button to interrupt the print job, or click "OK" to close the Printer Status dialog box and return to the Photoshop window.

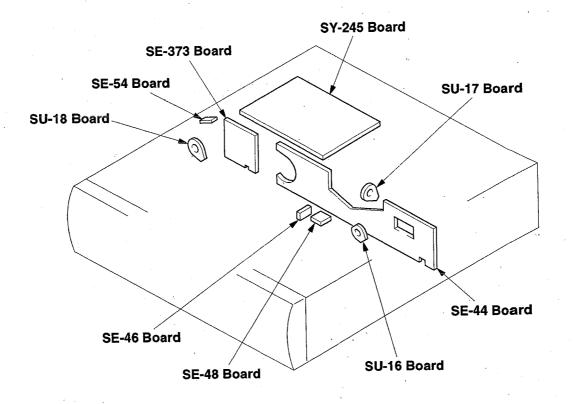


If the Printer Status dialog box is not visible when you want to cancel printing, select "Sony UP-D5500 Series Export..." from the "Export" to redisplay the dialog box, and click the "Cancel Printing" button.

SECTION 2 SERVICE INFORMATION

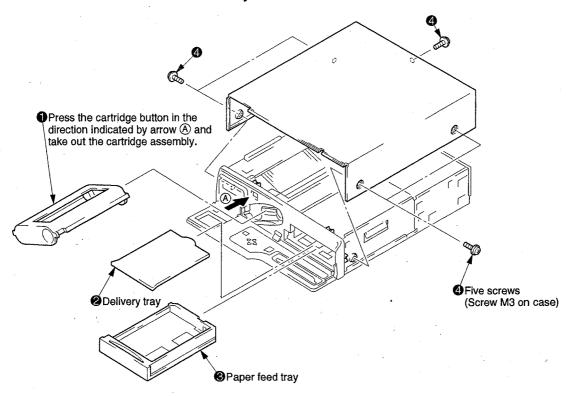
2-1. BOARD LAYOUT



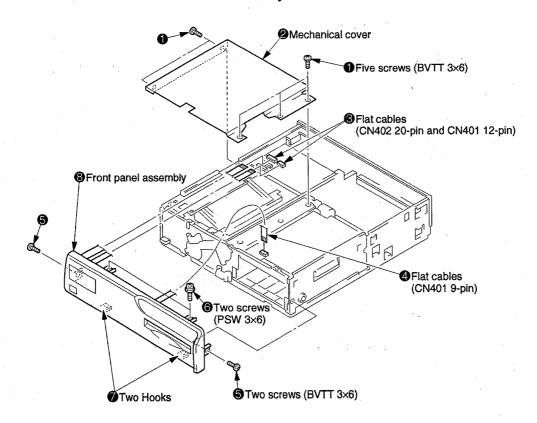


2-2. DISASSEMBLY

2-2-1. Removal of the Cabinet Assembly

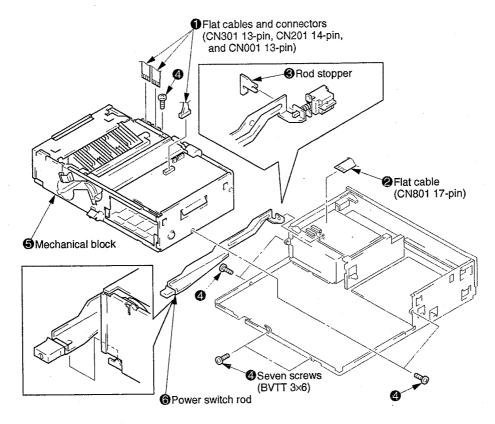


2-2-2. Removal of the Front Panel Assembly

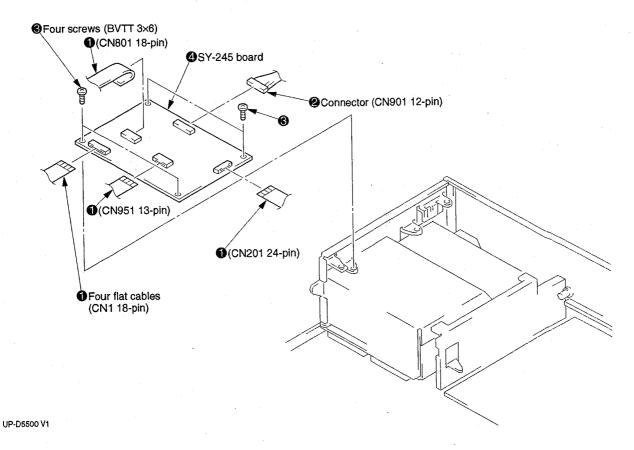


2-2

2-2-3. Removal of the Mechanical Block

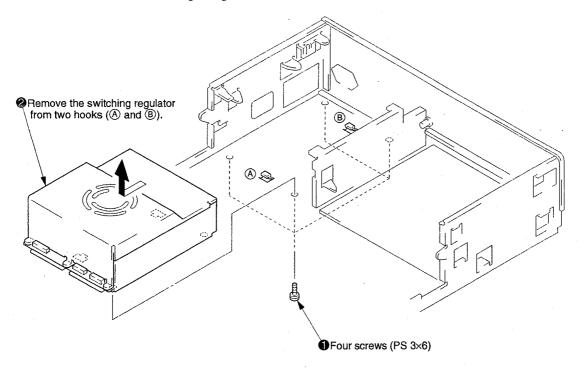


2-2-4. Removal of the SY-245 Board

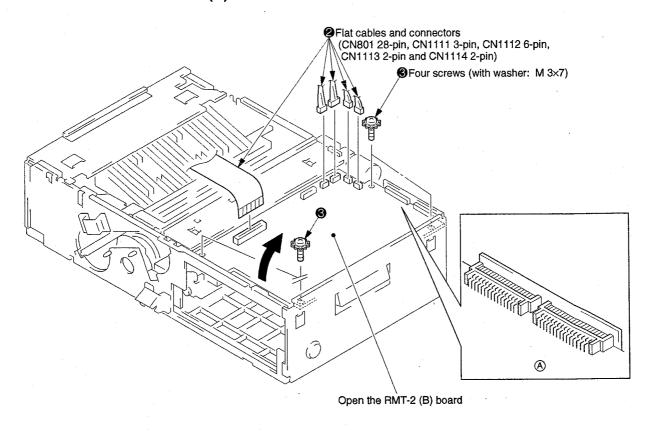


2-3

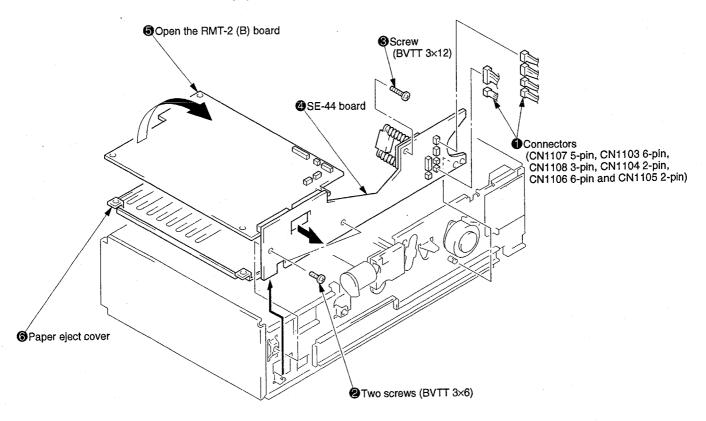
2-2-5. Removal of the Switching Regulator



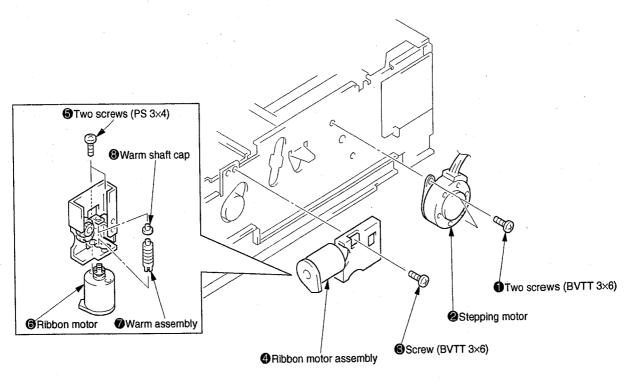
2-2-6. Removal of the PRT-2(B) Board



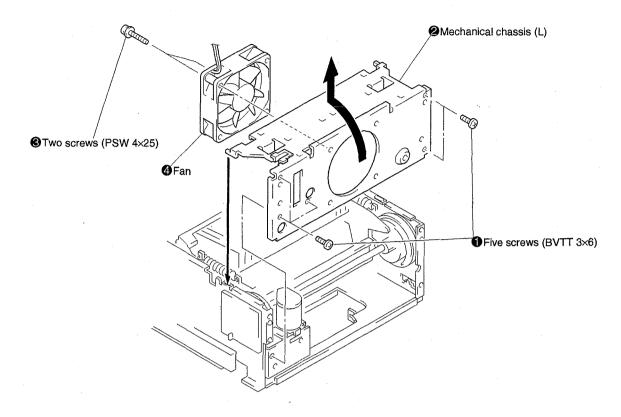
2-2-7. Removal of the PRT-2(B) and SE-44 Boards



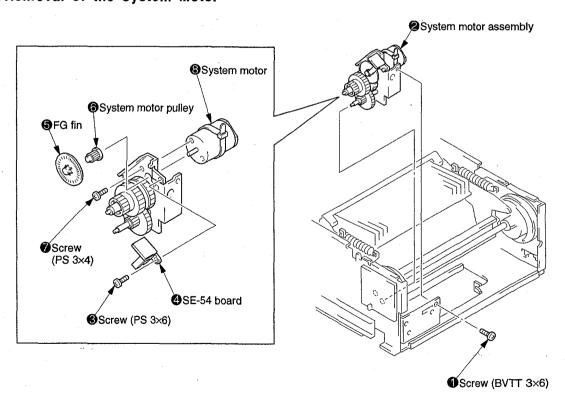
2-2-8. Removal of the Stepping Motor and Ribbon Motor



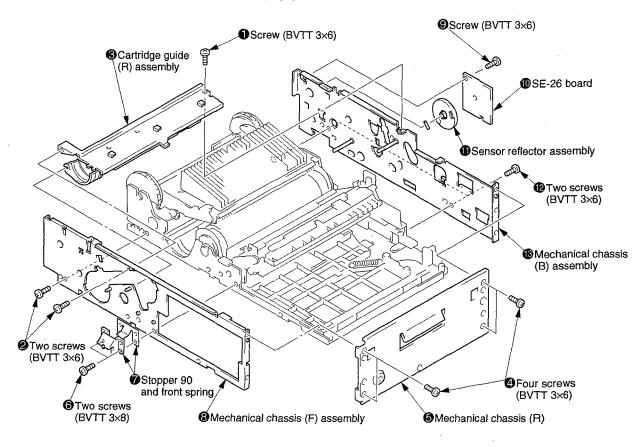
2-2-9. Removal of the Fan



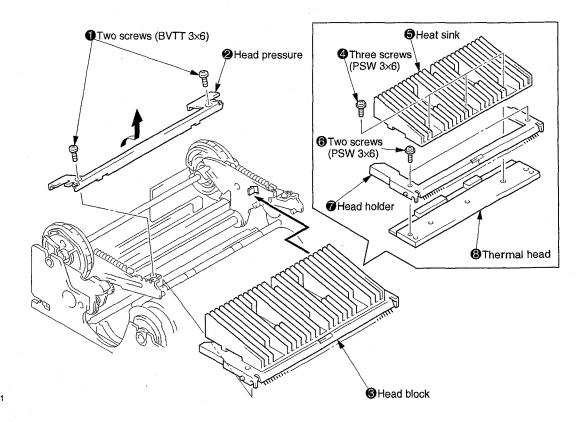
2-2-10. Removal of the System Motor



2-2-11. Removal of the Mechanical Chassis

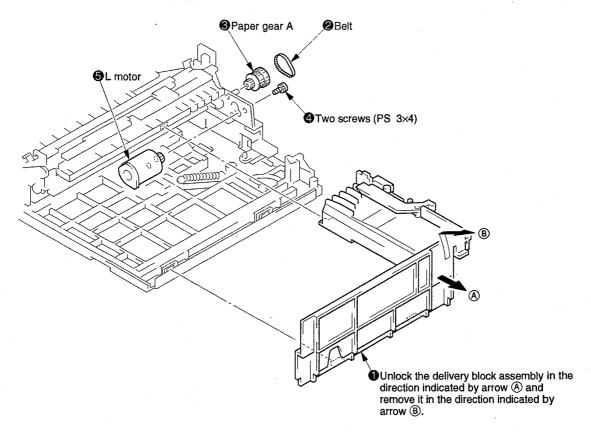


2-2-12. Removal of the Thermal Head

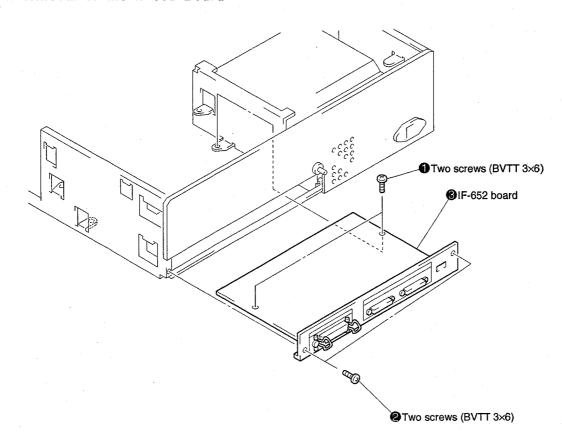


2-7

2-2-13. Removal of the L Motor



2-2-14. Removal of the IF-652 Board



2-3. Confirmation between UP-D5500 and the personal computer:

• The driver soft of UP-D5500 is downloaded from home page of internet. It is assembled to the personal computer. (Select the driver soft for Windows.) Perform the print for test.

http://www.hq.sony.co.jp/index-j.htm/	Access
SONY DRIVE	Appeared
1	
Service Area	Sciect
Software Download	Select
Sony Digital Printer	Select
(SOFTWARE LICENSE AGREEMENT)	
(ACCEPT)	Select
Driver software for	•
Windows	Select
Macintosh	either
†	
UP-D5500/5600 Series	
Chooser level	ι
Photoshop plug	either

SECTION 3 ELECTRICAL ADJUSTMENT

• COMPOSITE S.G

FULL FIELD 75% COLOR BAR WHITE REF 100IRE (1410,1411,etc)

• S-VIDEO S.G (TSG-130,131,etc)

FULL FIELD 75% COLOR BAR WHITE REF 100IRE(TSG130,131,etc) ANTI PAL (435P,etc)

• RGB S.G (TSG-300,etc)

STEP

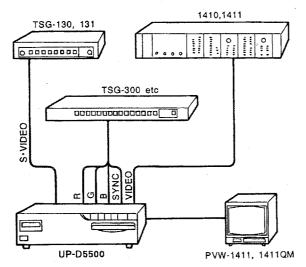
- Terminate the monitor output terminal in 75 ohms.
- UP-D5500
 - EVIDEO

75-ohm switch: ON

• ERGB

75-ohm switch: ON

• Set the NTSC/PAL switch according to the corresponding mode.



- How to enter the service mode (How to output atest signal)
- (1) Press the and keys simultaneously and turn on the power switch. The unit is then put into the service mode.

Indication of service mode
S

Ready

(2) Press the MENU button to display the MENU screen. (Last indication picture is indicated.)

SYSTEM SETUP
SYSTEM/prm/cadj

(3) Select following indication by using \leftarrow and \rightarrow keys.

SERVICE MENU-1
Test.P & Check

Q1

(4) Move the cursors 1 and 1 to the CPU DW: SET(V) position, select a test signal using the ← and → keys, and press the EXEC key. The test pattern is printed by pressing print key. CPU DW STEP (V) ① STEP(V) ② STEP(H) 3 RAMP(V) 4 RAMP(H) 5 COLOR BAR(V) 6 COLOR BAR(H) ® GRAY(COh) 9 GRAY(80h) @ GRAY(40h)

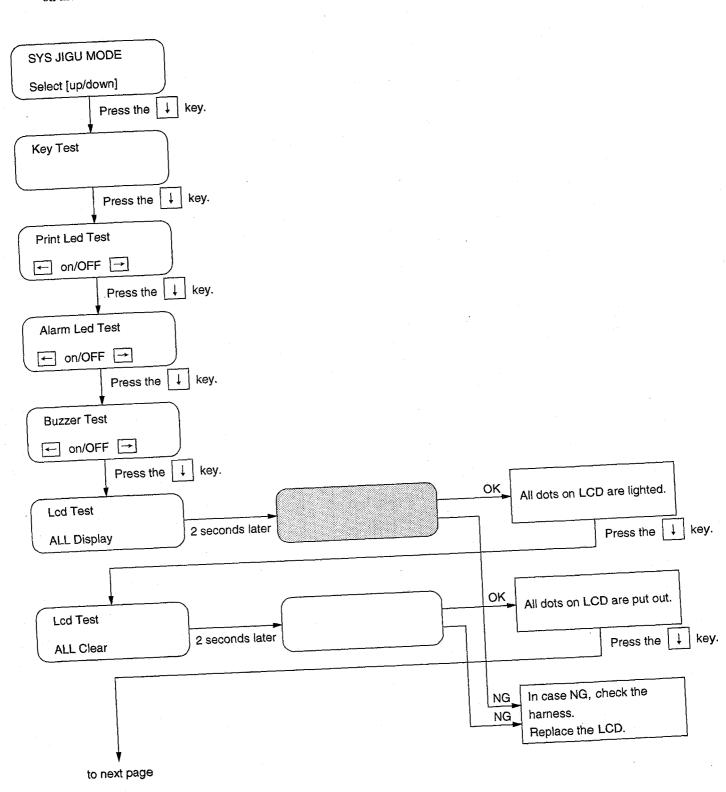
12 HAED

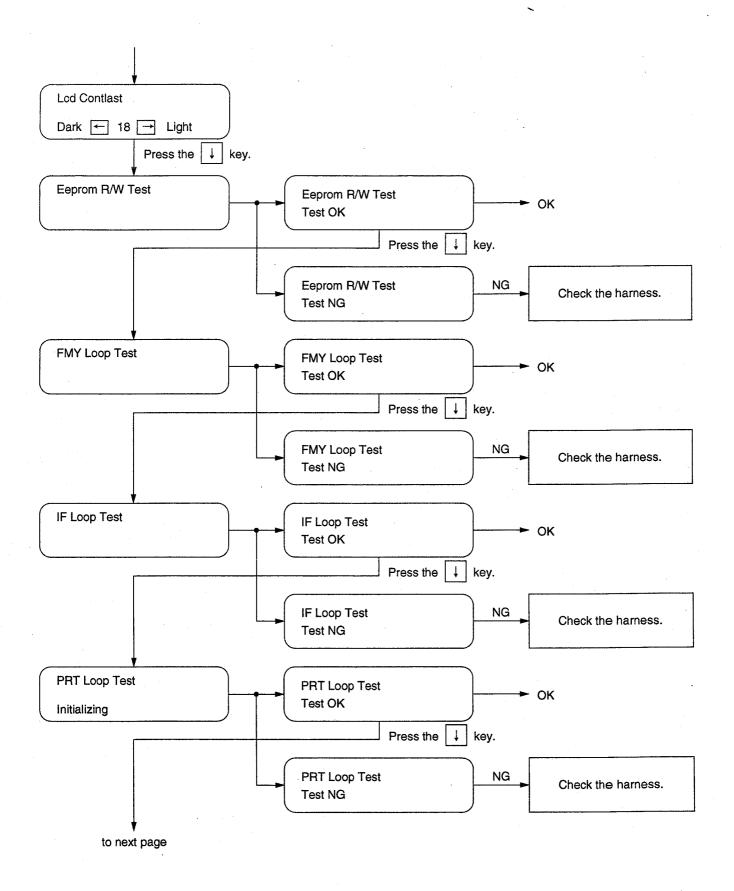
1 BLACK(00h)

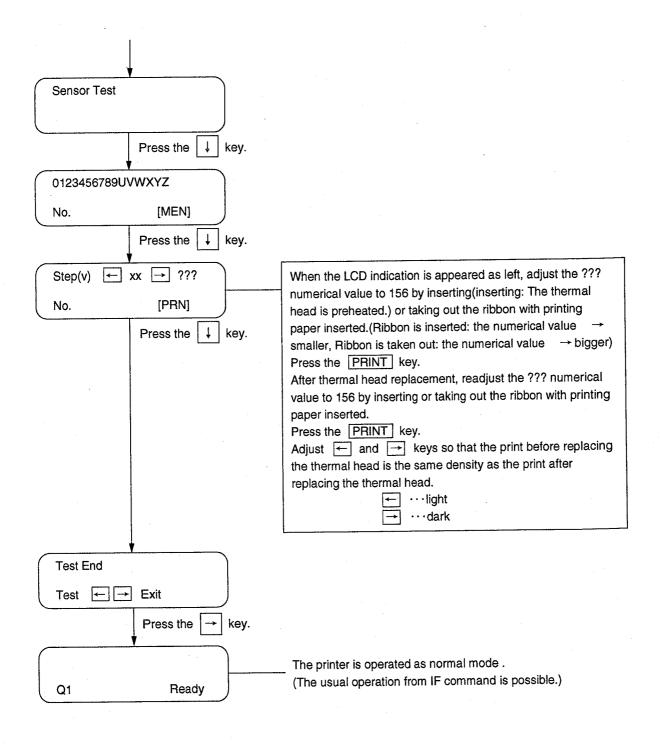
13 STEP VA

3-1. Density adjustment

→ and ↑ keys, Make sure that left picuture is appeared Turn on the power while pressing three 🛨 , [on the LCD.







SECTION 4 MECHANICAL OPERATION

4-1.	ENTERING	THE	MECHANICAL	ADJUSTMEN	I MODE

Turn o	n the power switch $ \bigcirc $ while pressing $ \longleftarrow $, $ \bigcirc $, and $ \bigcirc $ keys.
	adjustment mode is used for sensor level adjustment when the PRT-2, SE-44, SE-45, SE-46, SE-48, SE-53, SE-54, SU-16, SU-17, and SU-18 boards and each component are replace
4-2 .	PROCEDURE AND METHOD
• Ente	the mechanical adjustment mode, move the cursor to the item by pressing keys, and press the EXEC key.
	MECHA CHECK
• The	adjustment result appears liquid-crystal display when the adjustment item is completed.
OK	H'B0
NG	NG command + data (Refer to the command list.)
(Adju	stment example)
	r check [EXEC]
OK	H'B0
NG	H'E8 + H'81(The tray and head thermistor are NG.)

(1) Mechanical check

- Checks the communication with the SY board.
 - 1) Pull out the load tray and ribbon cassette from the unit.
 - 2) Press the EXEC key for mechanical check.
- · Adjustment result

Result	Contents of display
OK	H'B0
NG	No answer

Note: For NG, it is impossible to execute the communication with the SY board. Therefore, the subsequent adjustments cannot be performed.

(2) Sensor check

- Each sensor check
 - PP-JAM sensor (Paper jamming detection)
 - LOAD-TMG sensor (Load edge detection)
 - PP-TYPE sensor (OHP/plain paper detection)
 - RBN-CST sensor (Ribbon cassette detection)
 - EJCT-TMG sensor (Eject error detection)
 - TRAY sensor (Tray detection)
 - · Head thermistor check
 - 1) Pull out the load tray and ribbon cassette from the unit.
 - 2) Press the EXEC key for sensor check.
- · Adjustment result

Result	Contents of display
OK	H'B0
NG	H'E8+H'## (NG+data)

Note: In case of NG, refer to the corresponding list.

(3) Load motor

- · Load motor driving and load FG sensor check
 - · Load motor driving
 - LOAD-FG sensor (Load value detection)
 - 1) Pull out the load tray and ribbon cassette from the unit.
 - 2) Press the EXEC key for a load motor.

· Adjustment result

Result	Contents of display
OK	H'B0
NG	H'EA

(4) Mechanical sensor

- · System motor driving, mechanical sensor, and barcode sensor check
 - System motor driving
 - BARCODE-FG sensor (System motor drive detection)
 - 1) Pull out the load tray and ribbon cassette from the unit.
 - 2) Press the EXEC key for a mechanical sensor.

· Adjustment result

Result	Contents of display
OK	H'B0
NG	H'EA

(5) Platen position

- Step motor driving and platen position sensor check
 - Step motor driving
 - PLT-POS sensor (Platen home detection)
 - 1) Pull out the load tray and ribbon cassette from the unit.
 - 2) Press the EXEC key for platen position.

· Adjustment result

Result	Contents of display
OK	H'B0
NG	H'EA

(6) Ribbon FG

- · Ribbon motor driving and ribbon FG sensor check
 - RBN-MOTOR driving
 - RBN-FG sensor (Ribbon rotation detection)
 - 1) Pull the load tray and ribbon cassette from the unit.
 - 2) Press the EXEC key for ribbon FG.
- · Adjustment result

Result	Contents of display
OK	H'B0
NG	H'EA

(7) Paper path check

- Load and eject path check by the automatic adjustment loading of ribbon code sensor and barcode sensor
 - RBN-CD sensor (Ribbon code detection)
 - Barcode sensor (Ribbon barcode)
 - Load and eject operation
 - 1) Put one sheet of OHP paper in the load tray, then set.
 - 2) Prepare a ribbon for plain paper.
 - 3) Locate the beginning of the cyan portion manually so that a ribbon code is not put in the sensor position.
 - 4) Set the ribbon cassette.
 - 5) Press the EXEC key for paper path check.
 - 6) Perform the load and eject operation.
- · Adjustment result

Result	Contents of display
OK	H'B0
NG	H'E9+H'## (NG+data)

Note: In case of NG, refer to the corresponding list.

(8) Motor stop

• All the motors stop.

(9) Sensor adjustment data check
• Displays the adjustment values of a paper type sensor, ribbon code sensor, ribbon FG sensor, and barcode sensor. (Following data is indicated by pressing ← and ← keys.)
 Result (H'F1 + data 4) H'F1+H'##(data 1)+H'##(data 2)+H'##(data 3)+H'##(data 4)
(Example)
H'F1+H'B3(data 1)+H'0A(data 2)+H'F2(data 3)+H'7E(data 4)
• Emission value of data 1 sensor 3.4 V=5×179/256
• Data 2 emission low level 0.2 V=5×10/256
• Data 3 emission high level 4.7 V=5×242/256
• Data 4 threshold 2.5 V=5×126/256
 [Error data list] General display NG H'B0 Error H'EA Sensor check Data of less than error command H'E8 + (Bit matching indication) [7] TRAY [6] LD_TMG [5] EJ_TMG [4] RBN_CST
[3] [2] PP_TYPE [1] [0] HED_THRM
 Paper path check Data of less than error command H'E9 + (Bit matching indication) [7] TRAY [6] [5] [4] [3] [2] PP_TYPE [1] RBN_CD [0] BARCODE
 Others Data of less than error command H'E0 + (Bit matching indication) [7] Motor/sensor error [6] Paper jamming [5] Ribbon error [4] No ribbon [3] No paper [2] Ribbon end [1] Remove paper [0] Media mismatch

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